

```

REM Sort by the Quiz #1 field in the range
oSortFields(0).Field = 4
oSortFields(0).SortAscending = True
oSortFields(0).FieldType = com.sun.star.util.SortFieldType.NUMERIC

REM Sort by the Quiz #2 field in the range
oSortFields(1).Field = 5
oSortFields(1).SortAscending = True
oSortFields(1).FieldType = com.sun.star.util.SortFieldType.ALPHANUMERIC

REM Set the sort fields to use
oSortDesc(0).Name = "SortFields"
oSortDesc(0).Value = oSortFields()

REM Now sort the range!
oRange.Sort(oSortDesc())
End Sub

```

	A	B	C	D	E	F	G	H
1	<b>Student</b>	<b>HW #1</b>	<b>HW #2</b>	<b>HW #3</b>	<b>Quiz #1</b>	<b>Quiz #2</b>	<b>Test #1</b>	<b>Average</b>
2	<b>Georgia</b>	70	80	55	39	75	67	64.33
3	<b>David</b>	75	86	91	40	88	79	76.50
4	<b>Ferdinand</b>	85	93	73	60	50	72	72.17
5	<b>Haley</b>	85	93	82	70	75	76	80.17
6	<b>Charles</b>	80	93	73	80	75	84	80.83
7	<b>Bethany</b>	95	100	82	80	88	93	89.67
8	<b>Jennifer</b>	85	93	73	80	100	90	86.83
9	<b>Andrew</b>	90	100	82	90	88	92	90.33
10	<b>Ian</b>	100	100	91	90	100	96	96.17
11	<b>Emily</b>	100	100	81	100	75	94	91.67
12								

Figure 463: Grading sheet sorted by quiz scores in ascending order

## Retrieving sorting information from a range

You can use the method *createSortDescriptor()* to retrieve the sorting information for a given cell range. If this method is called on a database range, it will create a sort descriptor using the sorting information stored with that range. On the other hand, if *createSortDescriptor()* is called on a standard named range or an unnamed range, it will generate a sort descriptor with default properties. In either case, the newly-generated sort descriptor can be modified and passed as an argument to a *sort* method called on a given range.

The macro in Listing 23 demonstrates how to generate and display the sorting information associated with a range. The output of this macro is displayed in Figure 464.

*Listing 23: DisplaySortDescriptor displays sort descriptor properties in a dialog*

```

Sub DisplaySortDescriptor
  On Error Resume Next

```